Amendments to the Specification:

On page 13 line 30 – page 14 line 22, please amend the following paragraph:

Referring now to the embodiment of Figs. 4 and 4A, in this case a hairbrush 30 presents an array of fibers in known position across the under surface of the hairbrush support 34. Whereas individual fibers 36 can be advantageously employed both as source fibers for delivering light to the tissue and at a later time as detector fibers while other fibers deliver light to the tissue, in some cases it is preferred to have special purpose fibers. That is the arrangement shown in Figs. 4 and 4A. Light delivering or source fibers are indicated at 36a and detector fibers at 36b. Whereas a known location of the fibers is important, and a regular pattern is usually convenient, a regular pattern is not required. In fact to some extent there is a degree of irregularity in the pattern shown in Fig. 4A [[3A]]. The controller and processor for this array system can be employed in known ways. A common way is to illuminate a single fiber or single local group of fibers that act as a single fiber at any one time, and to proceed through the array on that basis, while taking readings from all of the detector fibers or groups of detector fibers that act as a single detection fiber. The resulting data in digital form is assembled as a matrix and suitably processed. By examination of the matrix after scanning through the entire array, it is possible to generate a back projection image of the area examined. Use of such a hairbrush with PM or TRS (pulse) techniques can enhance the image produced.